SHARMISTHA DAS

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Professional Summary

Results-driven Computer Science Engineering graduate specializing in data analytics, database architecture, and business intelligence solutions. Proven expertise in developing comprehensive data pipelines using PostgreSQL and Power BI. Skilled in transforming complex datasets into actionable business insights through advanced SQL querying and interactive dashboard development.

Technical Skills

Programming Languages: Python.
Database Technologies: PostgreSQL, MySQL, Database Design, Normalization, Query Optimization, RDBMS.
Business Intelligence: Power BI, Power Query Editor, Data Modeling, Dashboard Development, DAX.
Data Analysis: Statistical Analysis, ETL/ELT, Data Mining, Pattern Recognition, KPI Development.
Tools & Technologies: Data Visualization, Report Automation, Data Warehousing, Performance Tuning.

Key Projects

Sales Performance Analytics Dashboard | *Power BI* | *Data Visualization* | *ETL*
- Developed comprehensive sales analytics solution transforming raw business data into actionable insights through interactive **Power BI** dashboards.
- Integrated multiple data sources and performed complex data transformations using **Power Query Editor.**
- Built dynamic dashboards featuring trend analysis, geographic mapping, and performance metrics.
- Established robust data relationships and created calculated measures using **DAX** for advanced analytics.
- Delivered key insights on sales trends, product performance, and regional contributions enabling data-driven decision making.

Digital Music Store Data Analysis | *PostgreSQL* | *SQL Analytics* | *Statistical Analysis*
- Conducted comprehensive exploratory data analysis on digital music store database applying statistical methods and advanced **SQL** techniques.
- Solved 10+ complex analytical problems using advanced **SQL** programming including **subqueries**, **CTEs**, and **aggregate functions**.
- Applied **statistical analysis** techniques to identify customer purchasing patterns, seasonal trends, and artist performance metrics.
- Utilized **window functions** for ranking, running totals, and comparative analysis across different time periods.

Student Attendance Management System | *PostgreSQL* | *Database Development*
- Developed robust **PostgreSQL** database application for academic attendance tracking with comprehensive data management capabilities.
- Made normalized **PostgreSQL** schema with **primary/foreign key** relationships and **CASCADE** rules ensuring relational integrity.
- Wrote optimized **SQL queries** with **JOIN** clauses to retrieve comprehensive student profiles including academic and attendance history.
- Designed time-based reporting queries enabling filtering of attendance records by specific date ranges for detailed analysis.

Education

JIS College of Engineering   **Kalyani, West Bengal**
Bachelor of Technology - Computer Science Engineering   *June 2023*
- CGPA: 7.59/10
- Relevant Coursework: Database Management Systems, Data Structures, Algorithms, Software Engineering.

Certifications & Achievements

HackerRank 5-Star Rating: Achieved a 5-star proficiency rating in Problem Solving and SQL.
LeetCode 2-Star Rating: Achieved a 2-star proficiency rating in Problem Solving and SQL.
Persistent Martian internship Program 2022: Completed intensive problem solving and algorithmic training in this internship program.

Additional Information

Professional Attributes: Analytical and problem solving skills, communication skills, detail-oriented.
Personal Interests: Kathak Classical Dancer - discipline, cultural appreciation and artistic expression.
Availability: Open to relocation, flexible work arrangements, available for immediate joining.